

Year 2 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2019-June 30, 2020

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name: Title:

Street Address Line 1:

Street Address Line 2:

City: State: Zip Code:

Email: Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

Impairment(s)

Bacteria/Pathogens
 Chloride
 Nitrogen
 Phosphorus
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State:
 Assabet River Phosphorus
 Bacteria and Pathogen
 Cape Cod Nitrogen
 Charles River Watershed Phosphorus
 Lake and Pond Phosphorus

Out of State:
 Bacteria/Pathogens
 Metals
 Nitrogen
 Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

Year 2 Requirements

- Completed Phase I of system mapping
- Developed a written catchment investigation procedure and added the procedure to the SWMP
- Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP
- Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes
- Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP
- Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP
- Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants
 - Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or
 - operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

All of these documents have been created from various templates or original documents and organized in our database. Work remains to be done to update our single SWMP public document due to lack of staffing/ access to our servers during the Governor's requirement for stay at home working during COVID response.

We will add these documents and procedures as time/staffing allows

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - This is not applicable because we do not have sanitary sewer
 - This is not applicable because we did not find any new SSOs
 - The updated SSO inventory is attached to the email submission
 - The updated SSO inventory can be found at the following website:
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- Provided training to employees involved in IDDE program within the reporting period
- All curbed roadways were swept at least once within the reporting period
- Updated outfall and interconnection inventory and priority ranking as needed

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Although a catchment priority document was created, work on this requirement has yet to progress. We will work on this in the coming permit year as staffing returns to regular work schedules due to COVID 19.

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Annual messaging requirements were met through our dues and active participation in the CT River

Stormwater Committee. Links to the messaging are provided

Chloride

Annual Requirements

Public Education and Outreach

- Included an annual message in November/ December to private road salt applicators and commercial
- industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Our fleet are carefully weighed and metered as to use the absolute minimum amount of salt to achieve desired street safety standards.

Nitrogen (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- Distributed an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Potential structural BMPs

- Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was
- estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP were documented.

- The BMP information is attached to the email submission
- The BMP information can be found at the following website:

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

This requirement needs further investigation and development.

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)Annual Requirements*Public Education and Outreach**

- Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

* *Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Potential structural BMPs

Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP were documented.

- The BMP information is attached to the email submission
- The BMP information can be found at the following website:

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

This requirement needs further investigation and development.

Solids, Oil and Grease (Hydrocarbons), or MetalsAnnual Requirements*Good Housekeeping and Pollution Prevention for Permittee Owned Operations*

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
- Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Our main arterials are swept 3 times per year and our downtown corridor is swept weekly for 36 weeks of the

year due to high traffic load. The rest of the 550 lane miles were swept 1.5 times with the goal of increasing to 2 times per year. Special effort will be given to increase even more our activity in TMDL catchments.

Charles River Watershed Phosphorus TMDL

Completed Legal Analysis

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Lake and Pond Phosphorus TMDL

Completed Legal Analysis

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

As staffing returns this will be a priority for the next permit years.

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Staffing shortages due to COVID stay at home orders have affected our ability to carry out all NPDES MS4 year 2 requirements. Although a significant amount of work was completed over the last permit year, the coming permit years will require increased efforts to get back on track with the long list of permit deliverables.

Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes
- No

If yes, describe below, including any relevant impairments or TMDLs:

not applicable

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

BMP:Think Blue CT River Website

Message Description and Distribution Method:

See: <https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:COVID 19 Litter

Message Description and Distribution Method:

See: <https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Cigarette Butts

Message Description and Distribution Method:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Dumpster Waste and Avoiding Contaminated flows

Message Description and Distribution Method:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: New MS4 development standards and erosion and sediment control

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Developers (construction)

Responsible Department/Parties: CT River Stormwater Committee, Springfield DPW

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Erosion and sediment control

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Developers and drain-layers specifically

Responsible Department/Parties: CT River Stormwater Committee

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Fleet maintenance to avoid spills and leaks

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Industrial facilities

Responsible Department/Parties: CT River Stormwater Committee

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper disposal of leaf litter

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Residents

Responsible Department/Parties: CT River Stormwater Committee, Springfield Planning

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Importance of soil test, proper use of fertilizers, disposal of grass clippings

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Residents

Responsible Department/Parties: CT River Stormwater Committee, Springfield Planning

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper management of pet waste

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Residents

Responsible Department/Parties: CT River Stormwater Committee

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper septic system care

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Residents

Responsible Department/Parties: CT River Stormwater Committee

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper disposal of leaf litter

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: CT River Stormwater Committee

Measurable Goal(s):

see link

Message Date(s): see link

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Importance of soil test, proper use of fertilizers, disposal of grass clippings

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper management of goose waste - businesses

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Proper management of pet waste

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP:Fowl Water messaging through state-wide campaign

Message Description and Distribution Method:

<https://thinkblueconnecticutriver.org/wp-content/uploads/2020/09/CT-River-SWC-Annual-Report-Narrative-MCM-1-.pdf>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

As always our SWMP is available to the public on our City website. Our DPW facebook page regularly shares and interfaces with the public with messaging related to stormwater issues. Unfortunately many tabling events at regional conferences have been canceled and most public interaction through a number of different opportunities were simply unavailable since March due to COVID restrictions. It should be noted that regardless of COVID, garnering public involvement in stormwater related issues has and will continue to be an extreme challenge.

Was this opportunity different than what was proposed in your NOI? Yes No

Describe any other public involvement or participation opportunities conducted **during this reporting period:**

Public engagement continues to be a challenge and will be a focus of ongoing efforts. We have tracked a significant amount of virtual engagement that is highlighted in the CT River Stormwater Council report attached to this report. But turning that into active involvement with the public in the shaping of our SWMP document is less than desirable.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period.***

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Below, check all that apply.

The following elements of the Phase I map have been completed:

- Outfalls and receiving waters
- Open channel conveyances
- Interconnections
- Municipally-owned stormwater treatment structures
- Waterbodies identified by name and indication of all use impairments
- Initial catchment delineations

Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

Although catchment delineations can be performed on a case by case basis using our GIS data layers, a comprehensive catchment delineation map has not been completed due to staffing and manpower issues. **SSO report has been requested from the Springfield Water and Sewer Commission but was not ready by submission deadline. This will be forwarded immediately upon receipt**

Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.

- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

outfall screening data from our previous permit year is available upon request

*Below, report on the number of outfalls/interconnections screened **during this reporting period.***

Number of outfalls screened:

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

our source tracking information from previous permit years is available upon request

*Below, report on the number of catchment investigations completed **during this reporting period.***

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date.***

Percent of total catchments investigated:

Optional: Provide any additional information for clarity regarding the catchment investigations below:

Our comprehensive dry weather inspection, testing and source tracking of our entire MS4 has been completed in previous permitting years. No additional screening was performed over the past year. We intend to begin the process of wet weather investigation in the coming permit years with a focus on identifying problem catchments and updating our catchment mapping

IDDE Progress

If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.

- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

no illicit discharges are reported in the past permit year, previous IDDE efforts data is available upon request

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period.***

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed: gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018).***

Total number of illicit discharges identified:

Total number of illicit discharges removed:

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

In our previous dry weather investigations in a prior permit year, of the 116 outfalls that showed dry weather flow, only 2 illicit connections were discovered via source tracking protocols approved by EPA. This was a frustrating outcome due to the significant amount of staffing and monetary resources expended during the effort.

Employee Training

Describe the frequency and type of employee training conducted **during the reporting period:**

MS4 Training DVD focused on Good Housekeeping and IDDE shown to DPW/Planning staff once per year.

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period.***

Number of site plan reviews completed: 36

Number of inspections completed: 100

Number of enforcement actions taken: 3

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

The 100 inspections is an estimation. Inspections are completed as needed and with regularity. The number of "enforcement actions" may seem low however with regular contact and visiting sites the need for enforcement is minimized with detecting issues, typically erosion control related, before they become problematic. Regular inspection mostly negate the need for enforcement. It would be difficult to estimate the actual number of inspections as some projects need very little and others are more sensitive.

MCM5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

Below, select the option that describes your ordinance or regulatory mechanism progress.

- Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- Bylaw, ordinance, or regulations have not been updated or adopted

As-built Drawings

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

All projects reviewed within the jurisdiction of the Wetlands Protection Act were previously required and continue to require as-built drawings. DPW requires all plans stamped by an engineer to be submitted following completion of projects. This requirement is included in the project check list that all applicable developments are to follow.

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

The City of Springfield has developed new pavement specifications to address updated technologies. The City is on track to complete this additional work for Year 4 and will use several resources to help in developing the report, including EPA's technical support document entitled, "Assessing Street and Parking Design Standards to Reduce Excess Impervious Cover in New Hampshire and Massachusetts," at the following link: <https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/ImperviousAssessment.pdf>.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

The City of Springfield is on track to complete this work for Year 4 and will use several resources to help in developing the report, including MassAudubon’s checklist entitled, “Supporting LID in Your Community: How to Compare Local Land Use Regulations with Best Practices” at <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm>; and guidance developed by the Pioneer Valley Planning Commission within the Green Infrastructure Toolkit at: <http://www.pvpc.org/content/green-infrastructure-toolkit>. Among these tools, there is a 2014 checklist that consolidates guidance from three excellent checklists: the Center for Watershed Protection’s Code and Ordinance Worksheet, the U.S. Environmental Protection Agency’s Water Quality Scorecard, and the Metropolitan Area Planning Council’s Low Impact Development Toolkit Checklist for Regulatory Review. PVPC is planning to review and refresh this checklist in the next month.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The City of Springfield is on track to complete this work for Year 4 and will begin with an initial screening of properties, using an ArcGIS points based methodology developed by the Pioneer Valley Planning Commission. This initial screening will include considerations of:

- ◆◆ hydrologic soil groups
- ◆◆ drainage areas of waters designated as Category 4a or 5 on the MA List of Integrated Waters
- ◆◆ impervious areas larger than 1 acre
- ◆ Environmental Justice Areas

These considerations may be supplemented and fine tuned based on our local priorities. Additional investigation will be required following this initial screening to further identify the 5 priority locations.

MCM6: Good Housekeeping

Catch Basin Cleaning

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period.***

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins:

If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

Street Sweeping

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

- Number of miles cleaned:
- Volume of material removed: [Select Units]
- Weight of material removed: tons

O&M Procedures and Inventory of Permittee-Owned Properties

Below, check all that apply.

The following permittee-owned properties have been inventoried:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

Stormwater Pollution Prevention Plan (SWPPP)

*Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.*

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

DPW yard requires yearly inspection and sweeping due to large volume of trucks with sand and salt or trash. Salt is kept in covered building to reduce danger of contamination. This an area for improvement in future permit years.

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

<https://connecticutriver.us/content/sites-list>

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

The City sponsors several sites in conjunction with a watershed wide water quality monitoring effort each summer. This data is used for the general public to establish safe recreation but is also indicative of stormwater quality.

Additional Information

Optional: Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

COVID-19 Impacts

Optional: If any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

A general lack in our year 2 activities involved expanding our SWPPP program for facilities other than the DPW yard. There was a general lack of interaction with the Parks and Facilities departments to further bring them into our program. Without direct contact due to buildings being closed since March, it was very difficult to get our SWPPP documents, although created, into action. MCM 2 Activities were greatly hampered by quarantine/social distancing efforts. Our IDDE program, although we've conducted all of our dry weather testing and source tracking, will need to expand in the coming years to include wet weather efforts. Updating our bylaw/regulations were stalled by lack of staffing and meetings being cancelled.

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

Provide any additional details on activities planned for permit year 3 below:

Further complete our catchment prioritization efforts, expand our public involvement as social distancing requirements ease, expand our SWPPP efforts and inspections at facilities, update our City wide SWMP document to include any of this years progress that hasn't made it to the document and add any additional procedures required, focus street sweeping efforts to hit TMDL catchments more frequently

Part V: Certification of Small MS4 Annual Report 2020

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Title:

Signature: Date:

[Signatory may be a duly authorized representative]

Note: When prompted during signing, save the document under a new file name.

Annual Report Submission

Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.

EPA: stormwater.reports@epa.gov

MassDEP: laura.schifman@mass.gov

Paper Signature:

If you did not sign electronically above, you can print the signature page by clicking the button below.

Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.